

* incl. 20 [-5; +30] mm pull out

3D model is available on request or www.hyva.com

Specifications		Max. pump flow		Tipping time	
Max. working pressure	250 bar	With KO ¹	190 L/min	With KO ¹	12 sec
Weight	214 kg	Without KO ¹	137 L/min	Without KO ¹	16 sec
Working volume	37 L	With KO ¹ below -20°C	133 L/min	With KO ¹ below -20°C	17 sec
Total volume	48 L	Without KO ¹ below -20°C	96 L/min	Without KO ¹ below -20°C	23 sec
Max. cyl. load (start tipping)	245 kN	Max. retraction flow		Retraction time	
Max. cyl. load (end of stroke) ²	231 kN	Above -20°C	14.2 L/min	Above -20°C	12 sec
Max. cyl. load (end of stroke) ³	245 kN	Below -20°C	9.9 L/min	Below -20°C	17 sec
1DA retraction pressure	250 bar				

Technical notes

- This cylinder is a lifting device only. • It should not be used as a structural member and should not be subjected to side loads. • Tipping valve must have a pressure relief at the cylinder port set not higher than max. working pressure. • Verify max. cyl. load. • Working temperature range is between -40°C and +80°C. • Max. duration of extension is 0.5 hours (excluded hard chromed stages). • Cylinder is painted black (RAL9005) with a min. thickness conforming to the 480 hours neutral salt spray test as per ISO 9227. • ¹ Hyva knock-off. • ² Unsubstantial unloading (sticky load). • ³ Substantial unloading.

Related documentation

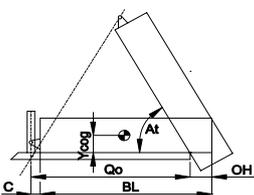
Bracket options:	015BRA10 & 015BRA12
Mounting instructions:	CYL-0030
Oil specifications:	OIL-0011
Spec sheet explanation:	CYL-0041

Configuration

Extension	1	2	3	4	5	6	7	Total
Effective diameter [mm]	129	110	91					
Stroke* [mm]	1280	1300	1300					3880

Tipping weight

For detailed tipping calculations please refer to: <https://tipper.hyva.com>

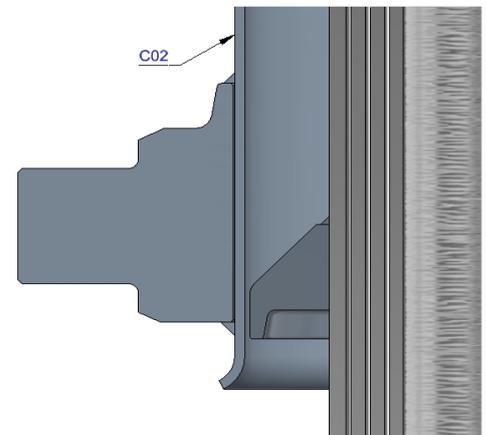
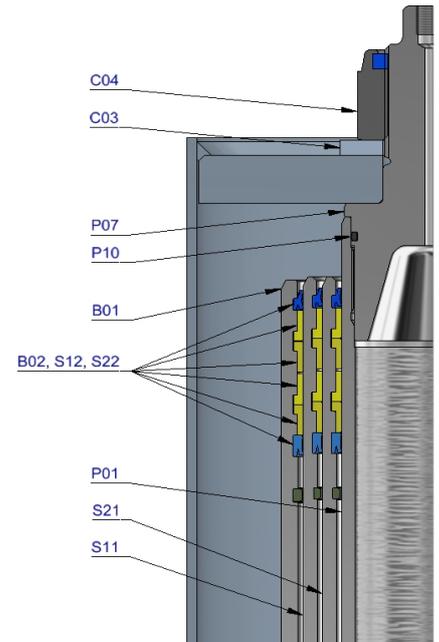


BL body length
OH rear overhang
Ycog vert. pos. centre of gravity
Qo pivot length
C bracket length
At tipping angle
 $stroke \times 60 / Qo$

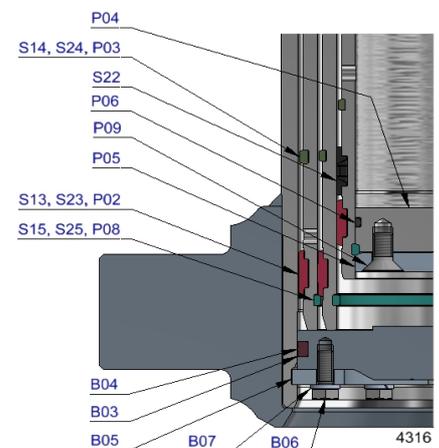
BL [mm]	200	5200	600	200	4900	600	200	4600	600
OH [mm]	44	46	48	47	49	51	50	52	55
At [°]	44	47	51	45	49	54	47	51	58
Ycog [mm]	44	47	51	45	49	54	47	51	58
C	44	47	51	45	49	54	47	51	58
At	44	47	51	45	49	54	47	51	58
	44	47	51	45	49	54	47	51	58
	44	47	51	45	49	54	47	51	58

Tipping weight [ton] at maximum pressure of 250 bar for a vertically mounted cylinder and C is 229 mm

Pos.	Part no.	Description	Qty.
C02	71706541	COVER 242-1315 PIN60 A340 FIX	1
C03	01702956K	WASHER M48 DIN 125B ZP	1
C04	01702907K	TOPNUT NYLOC M48x3 DIN 985 ZP	1
P01	74462513	PISTON FL3 S 091-1515-DA-HC	1
P02	71853091K	SLIDER FL 091 (2 X 1/2) A22	1
P03	71851091K	OUTER STOPRING FL 091 A22	1
P04	71822093	BOTTOM PLATE PISTON FL 091 DA	1
P05	71822094K	BACKUP PLATE PISTON FL 091 DA	1
P06	71870215K	O-RING 69.44 X 3.53 MM NBR 70 SHORE	1
P07	71848210	PISTON HEAD FL3 091 1DA G3/8"	1
P08	71852091K	LIFTRING FL 091 A22	1
P09	15012794K	BOLT HSCH 90 M10X20X1.5 Q10.9 DIN7991ZP	5
P10	01226430K	O-RING 72.62 X 3.53 MM NBR 70 SHORE	1



S21	74603512	STAGE FL2 110-1510-1DA	1
S22	71802112K	PACKSET FL 110 DA	1
S23	71853110K	SLIDER FL 110 (2 X 1/2) A22	1
S24	71851110K	OUTER STOPRING FL 110 A22	1
S25	71852110K	LIFTRING FL 110 A22	1
S11	74604510	STAGE FL2 129-1510	1
S12	71802129K	PACKSET FL 129/HP 129	1
S13	71853129K	SLIDER FL 129 (2 X 1/2) A22	1
S14	71851129K	OUTER STOPRING FL 129 A22	1
S15	71852129K	LIFTRING FL 129 A22	1
B01	74505510R1215	BASE FL2 149-1549-4/4BSAE-190-C242	1
B02	71802149K	PACKSET FL 149/HP 150	1
B03	71825420	BOTTOM PLATE FL2 149	1
B04	71870030K	SEAL BOTTOM PLATE FL 149	1
B05	71820149	LOCKING PLATE FL 149	3
B06	01732055K	BOLT HEX M8X20X1.25 SET 6 PCS	1
B07	01732559K	WASHER SPRING M8 SET 6 PCS	1



Seal kit complete

71908430K	Consists of all packsets with packset grease and O-rings
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Notes

The inner stopring and piston bottom are pre-mounted on spare bases, stage and pistons. Therefore, when ordering new tubes, it is not required to order these parts separately.

For repair instructions see: CYL-0040. Serial no. is located on type plate and near type plate support.